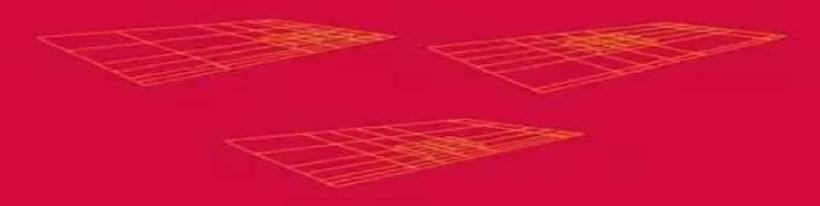
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engineering problems that seemed to be unapproachable not so very long ago The modal approach was chosen in this book It has a long tradition in structural engineering see e g 84 87 and 26 and is also used in control system analysis e g 93 Its usefulness thoroughly tested does not need extensive justification Both structural testing and analysis give priority to the modal representation due to its compactness simplicity and explicit physical interpretation Also many useful structural properties are properly exposed only in modal coordinates In this book the modal approach preferred by structural engineers is extended into control engineering giving new analytical results and narrowing the gap between structural and control Mastering Calculations in Linear and Nonlinear Mechanics Pierre Ladevèze, Jean Pierre Pelle, 2004-12-16 This book deals with the management of calculations in linear and nonlinear mechanics Particular attention is given to error estimators and indicators for structural analysis The accent is on the concept of error in constitutive relation An important part of the work is also devoted to the utilization of the error estimators involved in a calculation beginning with the parameters related to the mesh Many of the topics are taken from the most recent research by the authors local error estimators extention of the concept of error in constitutive relation to nonlinear evolution problems and dynamic problems adaptive improvement of calculations in nonlinear mechanics This work is intended for all those interested in mechanics students researchers and engineers concerned with the construction of models as well as their simulation for industrial Fundamentals of Surface Mechanics Frederick F. Ling, W. Michael Lai, Don A. Lucca, 2012-08-10 Mechanical purposes engineering an engineering discipline borne of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series features graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of consult ing editors on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the next page of this volume The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology

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dimensional problems of the plastic behavior of plates and shells discussed mainly from the point of view of limit analysis and of the plasticity of metals with fully developed orthotropic anisotropy and the plastic behavior of anisotropic sheets The generalized tangent modulus theory of buckling in the plastic range for columns plates and shells is treated from the point of view of the bifurcation phenomenon The concluding chapter deals with a wide range of topics in dynamic plasticity including wave propagation armor penetration and structural impact in the plastic range This new edition includes a full chapter on the Finite Element Method which appeared in the previous version as an appendix as well as a large number of homework problems for each chapter A solutions manual is available for professors **Principles of Analytical System Dynamics** Richard A. Layton, 2012-12-06 Mechanical engineering an engineering discipline borne of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound is sues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series features graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of consult ing editors on the advisory board each an expert in one of the areas of concentration The names of the consulting editors are listed on the next page of this volume. The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control en ergetics mechanics of materials processing thermal science and tribology Fred Leckie our consulting editor for applied mechanics and I are pleased to present this volume in the Series Principles of Analytical System Dy namics by Richard A Layton The selection of this volume underscores again the interest of the Mechanical Engineering Series to provide our read ers with topical monographs as well as graduate texts in a wide variety of fields

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